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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/808,225	03/14/2001	Walter Schubert	HSS-016XX	2805
207	7590	07/19/2004	EXAMINER	
WEINGARTEN, SCHURGIN, GAGNEBIN & LEOVICI LLP TEN POST OFFICE SQUARE BOSTON, MA 02109			SHANNAN SHAH, KHATOL S	
			ART UNIT	PAPER NUMBER

1645

DATE MAILED: 07/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/808,225	Applicant(s) SCHUBERT, WALTER	
	Examiner Khatol S Shahnian-Shah	Art Unit 1645	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 April 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

1. Applicant's amendments and response to non-final action, received April 4, 2004 are acknowledged. Claims 1, 4, 5, 6, 10 and 12 have been amended. New claim 13 has been added. Specification pages 1 and 12 have been amended.
2. Claims 1-13 are under consideration.

Information Disclosure Statement

3. Applicant's supplemental Information Disclosure Statement, received March 31, 2004 is acknowledged. The references have been considered by the examiner, see attached PTO 1449.

Prior Citations of Title 35 Sections

4. The text of those sections of Title 35 U.S. Code not included in this action can be found in a prior office action.

Prior Citations of References

5. The references cited or used as prior art in support of one or more rejections in the instant office action have been previously cited and made of record. No form PTO-892 has been submitted with this office action.

Objections Withdrawn

6. Objection to the abstract of disclosure made in paragraph 4, of the office action mailed 10/01/03 is withdrawn in view of applicant's amendment.
7. Objection to the specification in regard to the priority statement made in paragraph 6, of the office action mailed 10/01/03 is withdrawn in view of applicant's amendment.

Objections Maintained

8. Objection to the specification in regard to express mail sticker made in paragraph 5,

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of the office action mailed 10/01/03 is maintained. Applicant's request that the examiner should withdraw the rejection has been noted. The examiner respectfully states that such request is not going to be granted because it is not proper to include a certificate of mailing in the first page of the specification which could lead to confusion and mistake during the issue and printing processes. See MPEP § 608.01.

Rejections Withdrawn

9. Rejection of claims 1-12 under 35 USC 112 second paragraph, made in paragraph 11, of the office action mailed 10/01/03 is withdrawn in view of applicant's amendment.

Rejections Withdrawn

10. Rejection of claims 1-12 under 35 USC 112 second paragraph, made in paragraph 11, of the office action mailed 10/01/03 is withdrawn in view of applicant's amendment.

Rejections Maintained

11. Rejection of claims 1-12 under judicially created doctrine of obviousness –type double patenting, made in paragraphs 8 and 9 of the office action mailed 10/01/03 is maintained.

Applicant has not filed a terminal disclaimer to overcome these rejections.

Applicant's argue that claims 1-12 are not obvious over U.S. Patent number 6,150,173 or Application number 09/808224. Applicant further argues that the reference does not mention any step in which a heterogeneous cell mixture is applied to an object as recited in claim 1.

Additionally applicant discloses identifying protein combination patterns on the surface of the cells, which are responsible for binding to defined structures. In regard to Application number 09/808224 it is understood that this reference is directed to identifying cell specific target

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structures but claims 1 and 12, however, recite method steps for both identifying and enriching cells. The reference does not teach or suggest this method step.

Applicant's arguments have been fully considered but they are not persuasive.

The examiner respectfully submits that claims 1-12 and newly added claim 13 are obvious over U.S. Patent number 6,150,173 and Application number 09/808224. Patent number 6,150,173 teach different cell structures and tissues which will include heterogeneous cell mixtures. (see column 6, lines 17-25 and lines 60-68). Therefore, it would have been obvious to one of ordinary skill in the art to perform the claimed method in view of teachings of U.S. Patent number 6,150,173. In regard to Application number 09/808224 as the applicant admits the claims of both applications are drawn to a process for identifying cell specific target structures and incorporating additional method steps such as enriching cells is within the level of ordinary skill in the art. See In re Kronig, 190 USPQ 425.

Conclusion

12. No claims are allowed.

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

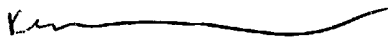
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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

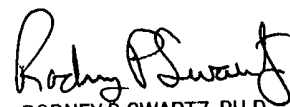
14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khatol S Shahnan-Shah whose telephone number is (571)-272-0863. The examiner can normally be reached on 7:30am-4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynette F Smith can be reached on (571)-272-0864. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Khatol Shahnan-Shah, B.S., Pharm., M.S.
Biotechnology Patent Examiner
Art Unit 1645
July 6, 2004



RODNEY P SWARTZ, PH.D
PRIMARY EXAMINER